	RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)							
					ology St	gy Study 27		
FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
4,184	10,849	11,029	4,834	4,950	4,312	0	Continuing	TBC
0	0	0	0	0	0	0	0	(
	Actual 4,184	Actual Estimate 4,184 10,849	FY 2001 FY 2002 FY 2003 Estimate 4,184 10,849 11,029	FY 2001 FY 2002 FY 2003 FY 2004 FY 2004 Estimate Estimate Estimate Estimate 4,834	FY 2001 Actual FY 2002 Estimate FY 2003 Estimate FY 2004 Estimate FY 2005 Estimate 4,184 10,849 11,029 4,834 4,950	FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 ESTIMATE FY 2005 ESTIMATE FY 2006 ESTIMATE ESTIMATE 4,184 10,849 11,029 4,834 4,950 4,312	O605306F Ranch Hand II Epidemiology St FY 2001 Actual FY 2002 Estimate FY 2003 Estimate FY 2004 Estimate FY 2005 Estimate FY 2006 Estimate FY 2007 Estimate 4,184 10,849 11,029 4,834 4,950 4,312 0	FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 Cost to Actual Estimate Estimate Estimate Estimate Estimate Final Estimate Estimat

As a result of Presidential direction, PE 0605306F was established to conduct a 20-year epidemiology investigation of approximately 1,200 Air Force personnel who were involved with aerial spraying of herbicides in Vietnam from 1962 to 1971 (Operation Ranch Hand). The objective of this investigation is to determine whether long-term health effects exist and can be attributed to occupational exposure to phenoxy herbicides and their associated dioxins.

This project involves a 20-year study, which was initiated in 1982, that compares United States Air Force (USAF) Ranch Hand personnel to a control group of USAF crew members and support personnel who were not exposed to herbicides while serving in Southeast Asia. Approximately 20,000 individuals (exposed personnel group plus control group) are participating in the annual mortality study, with approximately 2,200 (exposed personnel group plus control group) of these participating in the detailed morbidity study during each physical examination cycle. The detailed physical examination cycle includes follow-up health examinations at the 3-, 5-, 10-, 15-, and 20-year time periods. The study includes examination of the possible occurrence of birth defects in children as determined from children's medical records and family medical histories. The Congressionally-established Ranch Hand Advisory Committee has directed that all study findings be reported to the scientific community as peer-reviewed journal articles. Note: This program is comprised of six cycles and each cycle consists of participant physical examinations followed by data analysis and report generation. The largest expenditure of funds occurs during the physical exam cycles such as in 1997-1998 and 2002-2003. The program is currently in the preparation phase for physical exam cycle 6; therefore, significantly more funds will be required in FY 2002 and FY 2003 than were required in FY 2000 and FY 2001.

FY 2001 (\$ in Thousands)

Project 2767

(U)	\$1,307	Conducted analyses as directed by the Congressionally-established Ranch Hand Advisory Committee. Conducted process review prior to final
		examination cycle to determine potential participation rates, requirements for in-house or regional examination sites, and statistical, schedule,
		and cost implications of the aging study population.
(U)	\$1,430	Conducted other agency/university studies supporting scientific effort. Completed Center for Disease Control study to test for the presence of
		other forms of dioxin than found in Agent Orange. Completed morbidity and mathematical modeling. Completed dioxin half-life and serum
		dioxin analyses. Started semen DNA study.

Exhibit R-2 (PE 0605306F

Page 1 of 4 Pages

	RDT	DATE February 2002		
	get activity - Management a	and Support	PE NUMBER AND TITLE 0605306F Ranch Hand II Epidemiol	ogy Study 2767
(U)	A. Mission Descrip	tion Continued		
(U) (U)	FY 2001 (\$ in Thou \$1,447	Processed and documented examination da	ata to include updating of the participant database. Conducted nately 1,200 Ranch Hand personnel and 19,000 comparison personnels as directed.	
(U)	\$4,184	Total		
(U) (U) (U)	FY 2002 (\$ in Thou \$7,799 \$1,642	Initiate the sixth and final cycle of physical Continue to process and document examinand verify the coding of existing medical rational 19,000 comparison personnel. Conduct data	al examinations, questionnaires, and participant database. nation data to include continuing to verify the physical examinat records. Perform the annual mortality analysis of approximately at analysis for articles to be submitted to peer-reviewed journal ing of the participant database. Continue to conduct medical records.	1,200 Ranch Hand personnel and s as directed. Process and document
(U)	\$1,408		Continue archiving previous cycles' examination data and digiting and verification of examination database and Cycles 1 through als and reports.	
(U)	\$10,849	Total		
(U)	FY 2003 (\$ in Thou	sands)		
(U) (U)	\$9,811 \$1,018	Continue to process and document examinand verify the coding of existing medical range of the conduct days to the conduct days are conducted as a cond	cical examinations, questionnaires, and participant database. In the participant database. In the participant database. It is a participant database. I	1,200 Ranch Hand personnel and s as directed. Process and document
(U)	\$200	Continue to process and document examin 6 data as received. Conduct medical record	nation data. Continue archiving previous cycles' examination dards coding and verification of examination database and Cycles for journals and reports. Continue maintenance of Ranch Hand	ta and digitize and archive the Cycle 1 through 6 coding. Perform annual
(U)	\$11,029	Total		
P	Project 2767		Page 2 of 4 Pages	Exhibit R-2 (PE 0605306F)

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)							February 2002		
	GET ACTIVITY · Management and Support			PE NUMBER / 0605306F		Hand II Epic	lemiolog	y Study	PROJECT 2767
(U)	B. Budget Activity Justification This program is in Budget Activity 6, Manage operations required for general research and de			ludes research a	and developm	ent efforts direc	ted towards	support of installat	ions or
(U)	C. Program Change Summary (\$ in Thousa	nds)							
(U) (U)	Previous President's Budget Appropriated Value				FY 2001 4,315 4,356	<u>FY 2002</u> 10,952 10,952		<u>Y 2003</u> 11,338	<u>Total Cost</u> TBD
(U)	Adjustments to Appropriated Value a. Congressional/General Reductions b. Small Business Innovative Research c. Omnibus or Other Above Threshold Reprog d. Below Threshold Reprogram	ram			-131	-103			
(U) (U)	e. Rescissions Adjustments to Budget Years Since FY 2002 I Current Budget Submit/FY 2003 PBR	PBR			-41 4,184	10,849	1	-309 1,029	TBD
(U)	Significant Program Changes: None. The increase in FY 2002 and FY 2003 funding in this program.	funding is due	to the physical	exams schedule	ed in these ye	ars. The increas	se is a norma	al part of the cyclic	al nature of
(U) (U)	D. Other Program Funding Summary (\$ in FY 2001 Actual Not Applicable.	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
(U)	E. Acquisition Strategy Not Applicable.								
(U)	F. Schedule Profile			FY 2001		FY 2	002	<u>FY</u>	2003
Р	roject 2767		Pag	ge 3 of 4 Pages				Exhibit R-2 (F	PE 0605306F)

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)						DAT	DATE February 2002					
BUDGET ACTIVITY 06 - Management and Support	PE NUMBER AND TIT 0605306F Rar			_{TITLE} anch Hand II Epidemiolog				gy Study		PROJECT 2767		
(U) F. Schedule Profile Continued	1	<u>FY 2001</u> 2 3	4	1	<u>FY 2</u>	2 <u>002</u> 3	4	1	<u>FY 2</u>	2003 3	4	
(U) Not Applicable.	1	2 3	4	1	2	3	7	1	2	3	4	
Project 2767	Pag	e 4 of 4 Pages						Exhibit I	R-2 (PE	E 06053	06F)	